



RECEIVED

PATENT

APR 05 2002

Case Docket No. GENENT.48CP1C1

Date: March 28, 2002

TECH CENTER 1600/2900

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s) : Klein et al.
Appl. No. : 10/033,350
Filed : November 2, 2001
For : USES OF GDNF AND GDNF
RECEPTOR
Examiner : Unknown
Group Art Unit : Unknown

I hereby certify that this correspondence and all marked
attachments are being deposited with the United States
Postal Service as first class mail in an envelope addressed
to: United States Patent and Trademark Office, P.O. Box
2327, Arlington, VA 22202, on

March 28, 2002

(Date)

Ginger R. Dreger, Reg. No. 33,055

1647
5/19/02

TRANSMITTAL LETTER

United States Patent and Trademark Office
P.O. Box 2327
Arlington, VA 22202

ATTENTION: APPLICATION BRANCH

Dear Sir:

Enclosed for filing in the above-identified application are:

- (X) An Information Disclosure Statement.
- (X) A PTO Form 1449 with 41 references which are not enclosed, since they were disclosed in previous application No. 08/860,370 filed on June 6, 1997.
- (X) The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment, to Account No. 11-1410.
- (X) Return prepaid postcard.

Ginger R. Dreger
Registration No. 33,055
Attorney of Record

GENENT.48CP1C1



PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Klein et al.) Group Art Unit Unknown
App. No. : 10/033,350)
Filed : November 2, 2001)
For : USES OF GDNF AND GDNF)
RECEPTOR)
Examiner : Unknown)

RECEIVED

APR 05 2002

TECH CENTER 1600/2900

INFORMATION DISCLOSURE STATEMENT

United States Patent and Trademark Office
P.O. Box 2327
Arlington, VA 22202

Dear Sir:

Enclosed is form PTO-1449 listing 41 references that are not enclosed, since they were disclosed in previous application No. 08/860,370 filed on June 6, 1997. This Information Disclosure Statement is being filed before the receipt of a first Office Action on the merits, and presumably no fee is required in accordance with 37 C.F.R. § 1.97(b)(3). If a first Office Action on the merits was mailed before the mailing date of this Statement, the Commissioner is authorized to charge the fee set forth in 37 C.F.R. § 1.17(p) to Deposit Account No. 11-1410.

Respectfully submitted,

KNOBBE, MARTENS, OLSON & BEAR, LLP

Dated: March 28, 2002

By: [Signature]
Ginger R. Dreger
Registration No. 33,055
Attorney of Record
620 Newport Center Drive
Sixteenth Floor
Newport Beach, CA 92660
(415) 954-4114

FORM PTO-1449	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. GENENT.48CP1C1	APPLICATION NO. 10/033,350
INFORMATION DISCLOSURE STATEMENT BY APPLICANT		APPLICANT Klein et al.	
(USE SEVERAL SHEETS IF NECESSARY)		FILING DATE November 2, 2001	GROUP Unknown

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE (IF APPROPRIATE)
	1. 5,550,050	8/96	Holland et al.	435	240.2	4/15/94

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
	2. WO 85/02610	20.06.85	PCT			
	3. WO 93/06116	4/93	PCT			
	4. WO 94/24160 A	10.27.94	PCT			
	5. WO 95/05465A	12.2.95	PCT			
	6. WO 95/13376 A	18.05.95	PCT			
	7. WO 97/33912	18.09.97	PCT			
	8. WO 00/24893 A	04.05.00	PCT			

EXAMINER INITIAL	OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)
	9. 11 th Biennial Meeting of the International Society for Developmental Neuroscience, Tampere, Finland (July 30, 1996-August 3, 1996) Abstract 110
	10. Andres et al., "Expression of two novel eph-related receptor protein tyrosine kinases in mammary gland development and carcinogenesis" <u>Oncogene</u> 9(5):1461-1467 (1994)
	11. Barinaga, Marcia "Neurotrophic Factors Enter the Clinic" <u>Science</u> 264: 772-774 (May 6, 1994)
	12. Bennett et al., "Cloning and Characterization of HTK, a Novel Transmembrane Tyrosine Kinase of the EPH Subfamily" <u>J. Biol. Chem</u> 269(19):14211-8 (1994)
	13. Berkmeier et al., "Neurotrophin-5: A Novel Neurotrophic Factor That Activates trk and trkB" <u>Neuron</u> 7:8570866 (1991)
	14. Buj-Bello et al., "GDNF Is an Age-Specific Survival Factor for Sensory and Autonomic Neurons" <u>Neuron</u> 15:821-828 (1995)
	15. Hefti, Franz, "Nerve Growth Factor Promotes Survival of Septal Cholinergic Neurons After Fimbrial Transections" <u>J. Neurosci</u> 6:2155-2162 (1986)
	16. Henderson et al., "GDNF: A Potent Survival Factor for Motoneurons Present in Pheripheral Nerve and Muscle" <u>Science</u> 266:1062-1064 (1994)
	17. Heumann, Rolf, "Regulation of the Synthesis of Nerve Growth Factor" <u>J. Exp. Biol</u> 132:1330150 (1978)

EXAMINER	DATE CONSIDERED
*EXAMINER: INITIAL IF CITATION CONSIDERED, WHETHER OR NOT CITATION IS IN CONFORMANCE WITH MPEP 609; DRAW LINE THROUGH CITATION IF NOT IN CONFORMANCE AND NOT CONSIDERED. INCLUDE COPY OF THIS FORM WITH NEXT COMMUNICATION TO APPLICANT.	

FORM PTO-1449	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. GENENT.48CP1C1	APPLICATION NO. 10/033,350
INFORMATION DISCLOSURE STATEMENT BY APPLICANT		APPLICANT Klein et al.	RECEIVED APR 05 2002
(USE SEVERAL SHEETS IF NECESSARY)		FILING DATE November 2, 2001	

EXAMINER INITIAL	OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)
18.	Jackowski, Andre "Neural injury repair: hope for the future as barriers to effective CNS regeneration become clearer" <u>British J. of Neurosurgery</u> 9:303-317 (1995)
19.	Jing, Shuqian et al., "GDNF-induced activation of the Ret protein tyrosine kinase is mediated by GDNFR-alpha, a novel receptor for GDNF" <u>Cell</u> 85:113-1124 (June 28, 1996)
20.	Kaisho et al., "Cloning and expression of a cDNA encoding a novel human neurotrophic factor" <u>FEBS Lett.</u> 266:187 (1990)
21.	Kotzbauer et al., "Neurturin, a relative glial-cell-line-derived neurotrophic factor" <u>Nature</u> 384:467-470 (1996)
22.	Lai et al., "An Extended Family of Protein-Tyrosine Kinase Genes Differentially Expressed in the Vertebrate Nervous System" <u>Neuron</u> 6: 691-704 (1991)
23.	Leibrock et al., "Molecular cloning and expression of brain-derived neurotrophic factor" <u>Nature</u> 341:149-152 (1989)
24.	Lin et al., "GDNF: A Glial Cell Line-Derived Neurotrophic Factor for Midbrain Dopaminergic Neurons" <u>Science</u> 260:1130-1132 (1993)
25.	Maisonpierre et al., "Ehk-1 and Ehk-2: two novel members of the Eph receptor-like tyrosine kinase family with distinctive structures and neuronal expression" <u>Oncogene</u> 8:3277-3268 (1993)
26.	Maisonpierre et al., "Neurotrophin-3: A Neurotrophic Factor Related to NGF and BDNF" <u>Science</u> 247:1446 (1990)
27.	Orth, S.R. et al., "Glial cell line-derived Neurotrophic Factor (GDNF) in the kidney" <u>Journal of the American Society of Nephrology</u> 6(3):774 (September 1995)
28.	Pasquale et al., "Identification of a developmentally regulated protein-tyrosine kinase by using anti-phosphotyrosine antibodies to screen a cDNA expression library" <u>Proc. Natl. Acad. Sci. USA</u> 86:5449-5453 (1989)
29.	Pasquale, Elena B., "Identification of chicken embryo kinase 5, a developmentally regulated receptor-type tyrosine kinase Of the Eph family" <u>Cell Regulation</u> 2:523-534 (1991)
30.	Pichel J.G. et al. "Defects in enteric innervation and kidney development in mice lacking GDNF" <u>Nature</u> 382:73-76 (July 4, 1996)
31.	Pichel, J.G. et al. "GDNF is required for kidney development and enteric innervation:" <u>Cold Spring Harbor Symposia on Quantitative Biology</u> 1996 61:445-457 (May 1997)
32.	Rosenthal et al., "Primary Structure and Biological Activity of a Novel Human Neurotrophic Factor" <u>Neuron</u> 4:767 (1990)
33.	Rudinger, J. "Characteristics of the amino acid as components of a peptide hormone sequence", <u>Peptide Hormones</u> J.A. Parsons, University Park Press, Baltimore pp.1-17 (June 1976)
34.	Saarma, M. et al., "Roles of GDNF in the development of nervous system and kidney" <u>International Journal of Development Neuroscience</u> 14(sup.11):77 (1996)
35.	Sajjadi et al., "Identification of a New eph-Related Receptor Tyrosine Kinase Gene From Mouse and Chicken That Is Developmentally Regulated and Encodes at Least Two Forms of the Receptor" <u>New Biol.</u> 3(8):760-78 (1991)
36.	Schuchardt, A. et al. "Defects in the kidney and enteric nervous system of mice lacking the Tyrosine kinase Receptor Ret" <u>Nature</u> 367:380-383 (January 27, 1994)
37.	Thoenen et al., "Physiology of Nerve Growth Factor" <u>Annu Rev. Physiol.</u> 60:284-335 (1980)

EXAMINER	DATE CONSIDERED
*EXAMINER: INITIAL IF CITATION CONSIDERED, WHETHER OR NOT CITATION IS IN CONFORMANCE WITH MPEP 609; DRAW LINE THROUGH CITATION IF NOT IN CONFORMANCE AND NOT CONSIDERED, INCLUDE COPY OF THIS FORM WITH NEXT COMMUNICATION TO APPLICANT.	

FORM PTO-1449	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. GENENT.48CP1C1	APPLICATION NO. 10/033,350
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (USE SEVERAL SHEETS IF NECESSARY)		APPLICANT Klein et al.	RECEIVED APR 05 2002 TECH CENTER 1600/2900
		FILING DATE November 2, 2001	GROUP Unknown

EXAMINER INITIAL	OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)
	38. Trupp, M. et al. "Functional receptor for GDNF encoded by the c-ret proto-oncogene" <u>Nature</u> 382:785-789 (June 1996)
	39. Trupp, M. et al. "Peripheral expression and biological activities of GDNF, a new neurotrophic factor for avian and mammalian peripheral neurons" <u>The Journal of Cell Biology</u> 130(1):137-148 (July 1, 1995)
	40. Wen D. et al. "Erythropoietin structure-function relationships: high degree of sequence homology among mammals" <u>Blood</u> 82(5):1507-16 (September 1993)
	41. Yan et al. "In vivo neurotrophic effects of GDNF on neonatal and adult facial motor neurons" <u>Nature</u> 373:341-244 (January 26, 1995)

EXAMINER	DATE CONSIDERED
*EXAMINER: INITIAL IF CITATION CONSIDERED, WHETHER OR NOT CITATION IS IN CONFORMANCE WITH MPEP 609; DRAW LINE THROUGH CITATION IF NOT IN CONFORMANCE AND NOT CONSIDERED, INCLUDE COPY OF THIS FORM WITH NEXT COMMUNICATION TO APPLICANT.	